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TRANSPORT PHENOMENA & FLUID MECHANICS

发现分级粉颗粒的流化性质

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摘要 Fluidization characteristics of silicon particle system are studied by the pressure fluctuation method.The existence of fine particles in the system canimprove fluidization. Silicon particles with a wide size distribution,preferably with some fines, behave as Group A particles according to Geldart classification, although the system belongs to Group B actually. The system is also approved to be suitable for organochlorosilane monomer production using a fluidized bed reactor. Experimental data obtained in this work are important for the design and operation of commercial fluidized bed reactors for the production of organochlorosilane monomers.

关键词 流化床; 硅粒子系统; 宽粒度; 压力波动; 平均频率; 频率偏差;

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Fluidization Characteristics of Silicon Particles with a Wide Size Distribution

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Key words silicon particle system; wide size distribution; pressure fluctuation; average frequency; standard deviation;

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